

Conference Cochairs:

Andrea Cerck, Memorial Sloan Kettering Cancer Center, New York, NY

Elizabeth M. Jaffee, Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD

Timothy R. Rebbeck, Dana-Farber Cancer Institute, Boston, MA

WEDNESDAY, DECEMBER 10

Registration

4-8 p.m. | Grand Salon Opera Foyer

Welcome and Opening Keynote Session

6-7:30 p.m. | Grand Salon Opera AB

6:00-6:05	Welcome Andrea Cerck, Memorial Sloan Kettering Cancer Center, New York, NY
6:05-6:10	Introduction of Keynote Speaker Andrea Cerck
6:10-6:40	Unequal and Early: Mapping Global Disparities in Cancers Before Age 50 Tomi Akinyemiju Duke University School of Medicine, Durham, NC
6:40-6:45	Introduction of Keynote Speaker Andrea Cerck
6:45-7:15	The Plastic Paradox: Implications for Cancer and Chronic Disease, and What We Can Do About It Leonardo Trasande NYU Grossman School of Medicine, New York, NY
7:15-7:30	Discussion / Q&A

Poster Session A & Reception

7:30-9 p.m. | Grand Salon Opera C

THURSDAY, DECEMBER 11

Continental Breakfast

7-8 a.m. | Grand Salon Foyer



Meet-the-Expert / Mentoring Roundtables Session
7-8 a.m. | Grand Salon Foyer

Conducting Translational Research: How to Get Started Andrew Chan	How to Get a Paper Published Zsophia Stadler
Choosing a Career Path: Academia vs Industry Entrepreneurship Marat Fudim	How to Write a Grant Ulrike (Riki) Peters
Balancing Clinical and Research responsibilities Zsophia Stadler, Karuna Ganesh, Andrew Chan	Starting your Lab Karuna Ganesh

Plenary Session 1: Epidemiology of Early-Onset Cancer

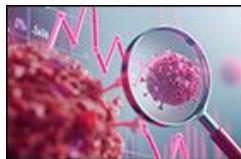
8:00-9:45 a.m. | Grand Salon Opera AB

Session Chair: Timothy R. Rebbeck, Dana-Farber Cancer Institute, Boston, MA

8:00-8:05	Introduction
8:05-8:25	Trends in cancer mortality before the age of 50 with a focus on colorectal cancer. Carlo Lavecchia Università degli Studi di Milano, Milan, Italy
8:25-8:45	Peeling the Onion: Epidemiologic Clues to the Etiology of Rising Early-onset Colorectal Cancer Rebecca Siegel American Cancer Society, Atlanta, GA
8:45-9:05	Environmental exposures and the rise of early onset cancers Mary Beth Terry Columbia University Irving Medical Center, New York, NY
9:05-9:15	Risk prediction modeling for colorectal adenomas in persons under age 50: a risk-stratified approach to early onset colorectal cancer prevention* Shria Kumar University of Miami Miller School of Medicine, Miami, FL
9:15-9:25	Co-occurring social determinants of endometrial cancer disparities in All of Us Oyomoare Osazuwa-Peters Duke University School of Medicine, Durham, NC
9:25-10:00	Discussion / Q&A

Break

10:00-10:15 a.m.



Plenary Session 2: Leading Hypotheses - Learning from Commonalities Across Diseases

10:15 a.m.-12:00 p.m. | Grand Salon Opera AB

Session Chair: Andrea Cercek, Memorial Sloan Kettering Cancer Center, New York, NY

10:15-10:20	Introduction
10:20-10:40	Searching for a link in etiology across early onset cancers Andrea Cercek
10:40-11:00	Drawing Parallels to Heart Failure Diagnosis and Research Marat Fudim Duke University, Durham, NC
11:00-11:20	Early-life sugar restrictions and long-term health [Prerecorded] Tadeja Gracner University of Southern California, Los Angeles, CA
11:20-11:30	Methylation scores link the exposome to eoCRC Silvana Maas VHIO Vall D'Hebron Institute of Oncology, Barcelona, Spain
11:30-11:40	Mutational signature profiling identifies a distinct subgroup of early-onset colorectal cancer associated with younger age at diagnosis, recent birth year and specific genomic features* Daniel Buchanan University of Melbourne, Parkville, VIC, Australia
11:40-12:15	Discussion / Q&A

Lunch on Own/Free Time

12:15-2:00 p.m.

Plenary Session 3: Global Disparities in Early-Onset Cancer

2:00-3:45 p.m. | Grand Salon Opera AB

Session Chair: Tomi Akinyemiju, Duke University School of Medicine, Durham, NC

2:00-2:05	Introduction
2:05-2:25	From place to person: an overview of global disparities in early-onset cancer Caitlin Murphy University of Texas, Houston School of Public Health, Houston, TX
2:25-2:45	Racial/Ethnic Disparities Across the Early Onset Colorectal Cancer Continuum (in the US) Folasade P. May



University of California Los Angeles, Los Angeles, CA

2:45-3:05	Sociodemographic and clinical determinants associated with early-onset breast cancer Tara Friebel-Klingner Rutgers Cancer Institute of New Jersey, New Brunswick, NJ
3:05-3:15	Uncovering the Etiology of Early-Onset Gastric Cancer in Latinos Through Germline and Tumor Genomic Profiling* Luis Carvajal-Carmona UC Davis, Davis, CA
3:15-4:00	Discussion / Q&A

Poster Session B & Reception

4:30-6:00 p.m. | Grand Salon Opera C

Evening off / Dinner on own

6:00 p.m.

FRIDAY, DECEMBER 12

Continental Breakfast

7-8 a.m. | Grand Salon Foyer

Meet-the-Expert / Mentoring Roundtables Session

7-8 a.m. | Grand Salon Foyer

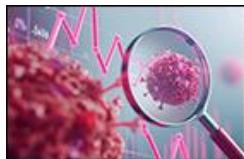
Conducting Translational Research: How to Get Started Yin Cao, Elizabeth Jaffee	Getting Tenure Elizabeth Jaffee
EU/UK Collaborations Carlo La Vecchia	Starting your Lab Marcus Goncalves
How to Write a Grant Ruth Etzioni, Elaine Fuchs, Ashani Weeraratna	How to Get a Paper Published Rebecca Siegel

Plenary Session 4: Mechanisms of Early Onset Carcinogenesis - Obesity and Metabolic Syndrome

8:00-9:45 a.m. | Grand Salon Opera AB

Session Chair: Yin Cao, Washington University of St. Louis, St. Louis, MO

8:00-8:05	Introduction
8:05-8:25	Born Out of Balance: Metabolism, Mechanism, and the Making of a New Cancer Generation



Yin Cao

8:25-8:45 **Modeling the Impact of Western Diet Components in Early-Onset Colorectal Cancer**
Marcus DaSilva Goncalves
NYU Langone Health, New York, NY

8:45-9:05 **Integrative cancer population sciences to decipher the etiology of early-onset cancers**
Tomotaka Ugai
Harvard Medical School, Boston, MA

9:05-9:15 **Incidence of early onset colorectal, kidney, uterine and pancreatic cancer by county-level obesity prevalence in the U.S., 2010-2022***
Meredith Shiels
National Cancer Institute, Rockville, MD

9:15-9:25 **Tumor-adjacent visceral adipose tissue displays an altered transcriptomic landscape in early-onset colorectal cancer patients: Results from the ColoCare Study***
Victoria Bandera
University of Utah Huntsman Cancer Institute, Salt Lake City, UT

9:25-10:00 Discussion / Q&A

Break

10:00-10:15 a.m.

Plenary Session 5: Mechanisms of Early Onset Carcinogenesis - Exogenous Factors

10:15 a.m.-12:30 p.m. | Grand Salon Opera AB

Session Chair: Riki (Ulrike) Peters, Fred Hutchinson Cancer Center

10:15-10:20 Introduction

10:20-10:40 **Unveiling Trends: Genetic, Environmental, and Molecular Insights into Early-Onset Colorectal Cancer**
Riki (Ulrike) Peters

10:40-11:00 **From the exposome to molecular profiling of early-onset colorectal cancers**
Alberto Bardelli
IFOM, Italy

11:00-11:20 **Early-life risk factors and colorectal cancer: implications for explaining the rise in early-onset cancers**



Mingyang Song
Harvard School of Public Health, Brookline, MA

11:20-11:40 **Contributions of the exposome to the rise in early onset cancers**
Samir M. Hanash
MD Anderson Cancer Center, Houston, TX

11:40-11:50 **Early-life penicillin blooms colibactin-positive *Escherichia coli* and drives DNA damage and tumorigenesis***
Max Van Belkum
Vanderbilt University School of Medicine, Nashville, TN

11:50-12:00 **Bugs in Space: Spatial Analysis of the Immune-Microbial Axis in Rectal Cancer Reveals a Unique Interface in Young Onset Rectal Cancers***
Ryan B. Morgan
UT MD Anderson Cancer Center, Houston, TX

12:00-12:45 Discussion / Q&A

Lunch on Own/Free Time

12:45-2:30 p.m.

Presentation of Awards to the Conference Cochairs

2:30-2:35 p.m. | Grand Salon Opera AB

Presented by: Elaine Fuchs, Rockefeller University, New York, NY

Plenary Session 6: Mechanisms of Early Onset Carcinogenesis - Endogenous Mechanisms

2:35-4:45 p.m. | Grand Salon Opera AB

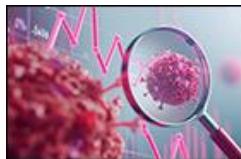
Session Chair: Joachim Weischenfeldt, Rigshospitalet Copenhagen, Copenhagen, Denmark

2:35-2:40 Introduction

2:40-3:00 **Mutational processes driving early-onset prostate cancer**
Joachim Weischenfeldt

3:00-3:20 **A Complex TiME: How the aging tumor immune microenvironment governs tumor progression.**
Ashani Weeraratna
Johns Hopkins University, Baltimore, MD

3:20-3:40 **The Role of pks⁺ *E. coli* in Early-Onset Colorectal Cancer**
Karuna Ganesh
Memorial Sloan Kettering Cancer Center, New York, NY



3:40- 4:00	Cancer: A tango of miscommunication between oncogenic stem cells and their microenvironment Elaine Fuchs Rockefeller University, New York, NY
4:00-4:10	Early-onset colorectal cancer is characterized by transcriptional changes indicating increased epithelial-mesenchymal transition and metastatic potential* Ana Anderson Brigham and Women's Hospital, Boston, MA
4:10-4:20	Transcriptomic and pathway analyses patterns in early-onset and late-onset microsatellite stable colorectal cancer: Results from the ORIEN Network* Sheetal Hardikar University of Utah Huntsman Cancer Institute, Salt Lake City, UT
4:20-5:00	Discussion / Q&A

Poster Session C & Reception
5:00-6:30 p.m. | Grand Salon Opera C

Evening off / Dinner on own
6:30 p.m.

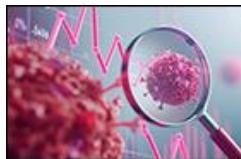
SATURDAY, DECEMBER 13

Continental Breakfast
7-8 a.m. | **Grand Salon Foyer**

Special Session: The NCI Early-Onset Cancer Initiative: Driving Discovery, Collaboration, and Patient Engagement
Organizer: LeeAnn Bailey, NCI,
7:15-8:15 a.m.

Plenary Session 7: Early Detection and Screening
8:30-10:15 a.m. | Grand Salon Opera AB
Session Chair: Luis Diaz, Memorial Sloan Kettering Cancer Center, New York, NY

8:30-8:35	Introduction
8:35-8:55	Early-Onset Colorectal Cancer as a Model for Precision Cancer Prevention Andrew T. Chan



Massachusetts General Hospital, Boston, MA

8:55-9:15	Multi-cancer Early Detection testing: Hope or hype? Elizabeth O'Donnell Dana-Farber Cancer Institute, Boston, MA
9:15-9:35	Early Onset Cancer Incidence: A Model for the Role of Diagnostic Advances* Ruth Etzioni Fred Hutchinson Cancer Center, Seattle, WA
9:35-9:45	Distinct Oral Bacterial Signatures in Rectal Cancer Tumors Associated with Age of Onset and Treatment Response* Nadim Ajami UT MD Anderson Cancer Center, Houston, TX
9:45-9:55	FIT for red flag signs and symptoms of early onset colorectal cancer: low value or viable diagnostic tool* Daniel Sabater Minarim UC San Diego Health, La Jolla, CA
9:55-10:30	Discussion / Q&A

Break

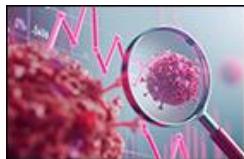
10:30-10:45 a.m.

Plenary Session 8: Opportunities for Interception

10:45 a.m.-12:15 p.m. | Grand Salon Opera AB

Session Chair: Elizabeth Jaffee, Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD

10:45-10:50	Introduction
10:50-11:10	Oncogene-Targeted Vaccines for Cancer Interception Elizabeth Jaffee
11:10-11:30	TBD Luis Diaz Memorial Sloan Kettering Cancer Center, New York, NY
11:30-11:50	Identification of Inherited Cancer Syndromes: Re-Defining Early-Onset Cancers Zsofia K. Stadler Memorial Sloan Kettering Cancer Center, New York, NY
11:50-12:00	Supplement And Medication Use in Early-Onset Colorectal Cancer: An Analysis of the Ohio Colorectal Cancer Prevention Initiative*



Holli Loomans-Kropp

The Ohio State University Wexner Medical Center, Columbus, OH

12:00-12:10 **Multidimensional assessment of toxicities and survivorship among people with early-onset colorectal cancer – Results from the ColoCare Study***
Jane Figueiredo
Cedars-Sinai Medical Center, Los Angeles, CA

12:10-12:45 Discussion / Q&A

Panel Discussion: Future Directions

1:15:00 p.m. | Grand Salon Opera AB

Panelists:

- Elizabeth M. Jaffee, Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD
- Timothy R. Rebbeck, Dana-Farber Cancer Institute, Boston, MA
- Luiz Diaz, Memorial Sloan Kettering Cancer Center, New York, NY

Closing Remarks

1:50-2 p.m.

Departure

2 p.m.